Appendix G Groundwater Data

From

USGS-12 and NRF-7

Table 1 Metal Concentrations – 1989 to Present Aluminum to Copper

The MDL was raised to accomodate the detection of constituents in blank

s = Sample diluted due to the concentration of target analytes. Compound is also detected in the blank. J = Result is detected below the reporting limit or is an estimited concentration.

Wa = Post digestion spike recovery fell between 40-85% due to matrix interference

Appendix G - Table 1 - Metals Data from USGS-12 and NRF-7 1989 to Present

D = Results were the result of a dilution

Less than Reporting Limit

4 5 to 0.79 16.0 22 0: |-2 2.5 3.3 2.0 20.02 3.0 3.0 LES! 10,0 8.0 1.0 0 8 ± 8 0 0 0,7 0,7 6.0 7.0 Cadmium 0 Beryllium 0.5 970 1.1 Bartum 8 8 2 2 8 2 2 25 SS 888 2 2.0 2.0 2.0 2.0 2.0 2.0 2.0 1.0 20 2 2 2 1,4 1.8 Antimony **₹**| = 2 2 1.0 0.1 2 2 8 8 9 Aluminum 8 Conduct (, S/cm) 8.46 8.42 8.50 8.50 8.35 8.10 8.26 8.37 8.30 8.21 Hd 8.07 8.14 8.30 8.46 8.41 8.41 8.11 8.47 7.98 8.34 8.51 8.12 7.90 7.80 7.80 8.25 8.25 8.50 8.28 8.16 8.44 8.05 7.80 7.80 7.80 7.93 7.90 7.89 7.83 03/10/92 05/14/92 07/08/92 09/18/92 12/09/92 06/10/93 Sampled 11/03/93 03/15/94 06/13/94 09/12/94 03/17/95 06/09/95 07/27/99 11/04/94 09/14/95 01/16/96 03/19/96 06/10/96 09/02/97 08/06/90 10/10/90 96/20/60 01/31/97 12/11/90 06/05/97 11/18/97 06/11/90 09/18/92 12/01/92 04/13/93 66/60/90 02/09/98 11/02/98 04/11/91 12/05/91 NRF-7 Number NRE-7 NRE-7 NRE-7 NRE-7 NRE-7 NRE-7 NRE-7 NRE-7 NRE-7 Well NRF-7 NRF-7 NRF-7 NRF-7 NRF-7 NRF-7

, A.	Copper					Total Control				- 1.0	1.0	1.0	1.0	V V	- 1.0	< 1.0	4.0	- 10,6	2.0	2.0	4:9	1.8	2.0	5.0	1.7	~ 2.0	×	< 2.0	< 2.0	3.77	9.92	00'.29	1.00
	Chramiim		3	6.0	5.0	7,3	9.0	7.3	7.3	6.7	7.0	6.5	7.2	6.5	8'9	7.8	6.8	0.01	6'#	6,3	5.8	5.7	1 6.2	5.9	6.3	Wo 5.1	5,7	9.9	6.4	8.82	3.69	27.00	1.00
	Carterinian	Caldinary								2.	· 1.0	1.0	1.0	1.0	1.0	- 10	- 4.0		e'0 >	e:0 >	0.0	J ot	6.0	< 0.3	0.3	< 0.3	e'0 >	< 9.3	0.3	0.62	0.38	1.00	0.02
9	an ill mod									900	0.01	< 10.0	0'01	0'01	0.0r >	4.0	0.01		929	9'0	5.0	9'0 >	9'0. ≥	< 0.5	9'0 >	970	> 0.5	< 0.5	< 0.5	3.52	4.47	10.00	0.50
										81	2	82	100	901	8	901	400	140	130	140	130	130	94	136	130	123	130	138	130	66.58	31,51	200.00	51.00
		Arsenic								2.0	20	2.0	0.2	2.0	5.0	2.0	2.0	1.6	1.5	> 5.0	1,6	61	61	9.6	6.1	9.9	9'9	2,0	9.0		1,44	5.80	1 00
		Antimony								97	1.0	0°L >	1.0	0)	0,1	27	e. *		0.5	0.5	979	90	0.5	970	50	0.5	<.0.5	9:0	900		0.28	1.10	0.17
		Aluminum								Q.	20	100	q	10	Q.	01	0.	10	8	8	100	100	20,	(8) V	486	001	52		36	O.	105.33	560.00	10.00
	Conduct	("S/om)	88	280	280	ROS	900	200	3 8	804	605	869	909	909	265	407	505	SEO	526	202	405	275	528	818	209	169	67.0	- 470	420	417.08	162.26	610.00	000
	7	ped pald	4/03 7.92	3/08 7.76					1.95	L																	L				,		
		7	USGS-12 06/14/93	11565-12 09/16/93					20/60 71-5050 15051 61-5051								1868 12 09/0			,	, ,	v.,				٦			1968 19 11/0		VIII CHS	M	

Table 2 Metal Concentrations – 1989 to Present Iron to Zinc

Sample diluted due to the concentration of target analytes.

Result is detected below the reporting limit or is an estimted concentration

Compound is also detected in the blank

Wa = Post digestion spike recovery fell between 40-85% due to matrix interference The reporting limit was elevated due to high analyte levels

D = Results were the result of a dilution

10.0

01 9 1.0 9. 1.0 0,5

Zinc

g: 9 9 9 2 2 9 0.5 9'1 1.2 97 0.6 3 6 3 4 3.0 1.0 2 2 Appendix G - Table 2 - Metals Data from USGS-12 and NRF-7 1989 to Present Mercury 0.1 8 8 8 922 2 2 5 1.0 8 2 2 2 3 2 2 3 8 8 6 0.1 0 20.0 10.0 10.0 20.0 10.0 0.0 0.0 001 10.0 3.6 9.0 9.2 1.0 (2) Lead 2 2 2 1.0 22 2 2 2 2 2 2 1.0 0 0 1.0 50.0 1.3 9 1.0 6.5 9000 180 210 800 180 180 330 280 4800 210 929 988 1100 110 69 180 180 Iron 06/09/95 09/14/95 05/14/92 07/08/92 09/18/92 12/09/92 04/09/93 06/10/93 09/14/93 03/15/94 06/13/94 03/10/92 09/10/91 11/03/93 09/12/94 01/16/96 03/19/96 06/10/96 11/04/94 03/17/95 96/20/60 Date 11/08/95 06/05/97 09/02/97 01/31/97 11/18/9 02/09/9 Number NRF-7 NRF-7

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11/01/99

NRF-7 NRF-7

JSGS-12 06/15/90 JSGS-12 08/06/90

10/10/9(02/07/91 04/11/91

JSGS-12 JSGS-12 JSGS-12 (

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	pendix G - Table 2 - Metals Data from USGS-12 and NRF-7 1989 to Present
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Table 3 Salt Concentrations – 1989 to Present

mber Sampled	Calcium	Potassium	Magnesium	Sodium	Chloride	Sulfa
V						
RF-7 09/10/91	30000	2800	9000	9300	6700	1400
RF-7 01/08/92				8100	6500	1900
RF-7 03/10/92 RF-7 05/14/92				7000 8700	6500 5100	1700
RF-7 07/08/92				8900	5100	1600
RF-7 09/18/92				11000		3500
RF-7 12/09/92				8400	5500	160
RF-7 04/09/93				8100	5400 -	150
RF-7 06/10/93 RF-7 09/14/93				7800	5500	150
RF-7 09/14/93 RF-7 11/03/93				8500 8700	5000 4800	150 150
RF-7 03/15/94				8100	5000	140
RF-7 06/13/94				8300	4900	140
RF-7 09/12/94				8600	5200	140
RF-7 11/04/94				8000	4900	140
RF-7 03/17/95				4500	5300	130
RF-7 06/09/95 RF-7 09/14/95				9300	4800 4900	130 130
AF-7 09/14/95 RF-7 11/08/95				8600	4900 4900	130
RF-7 01/16/96	25000	2900	8800	9100	4600	130
RF-7 03/19/96	25000	2800	8900	8900	5000	140
RF-7 06/10/96	25000	2800	9300	8700	5100	130
RF-7 09/03/96	24000	2800	9000	9500	5200	140
RF-7 01/31/97	21000	3000	8300	9000	5400	150
RF-7 06/05/97 RF-7 09/02/97	26900 26600	2900 2900	8900	9100	4700	135 137
RF-7 11/18/97	27200	3300	9100 9500	8300 9500	4600 4000	138
RF-7 02/09/98	28700	3300	9600	9000	4500	134
RF-7 05/11/98	31500	3300	9500	9700	4300	136
RF-7 08/05/98	24100	j 2720	9390	8270	4800	139
AF-7 11/02/98	30400	J 2800	9400	9400	4900	131
RF-7 02/04/99	27100	J 3020	9480	8730	5100	132
RF-7 05/03/99 RF-7 07/27/99	27700	J 3200	9700	9500	5300	133
RF-7 07/27/99	30000 28360	J 2900	9800 9800	8200 8900	5300 5800	140 142
GS-12 06/15/90	64000	1900	20000	13000	31000	320
GS-12 08/06/90				10000	32000	320
GS-12 10/10/90				12000	32000	330
GS-12 12/11/90				12000	35000	350
GS-12 02/07/91				12000	34000	350
GS-12 04/11/91				13000	33000	370
3S-12 06/10/91 3S-12 09/06/91				13000	31000 29000	260 290
3S-12 12/05/91				12000	36000	360
3S-12 03/12/92				14000	40000	380
SS-12 06/19/92				15000	40000	350
GS-12 09/18/92				8500	6300	150
GS-12 12/01/92			The state of the s	7700	7100	190
GS-12 04/13/93 GS-12 06/14/93				14000	37000	360
GS-12 09/16/93				13000	38000	370 380
S-12 11/05/93				16000	37000	350
SS-12 03/11/94				15000	38000	370
SS-12 06/10/94				15000	21000	260
SS-12 09/09/94				15000	38000	360
S-12 10/27/94				16000	39000	350
9S-12 03/20/95 SS-12 06/14/95				13000	42000	350
SS-12 06/14/95 SS-12 09/12/95				17000 17000	38000 39000	350 350
S-12 11/02/95				17000	40000	340
SS-12 01/16/96	70000	2100	24000	17000	38000	340
SS-12 03/21/96	77000	2100	23000	16000	40000	360
SS-12 06/10/96	66000	2000	24000	16000	38000	3400
3S-12 09/03/96	68000	1900	23000	17000	38000	3500

Appendix G - Table 3 - Salt Data from USGS-12 and NRF-7 1989 to Present Well Date Number Sampled Date Sodium Chloride Sulfate Magnesium Potassium 22700 17700 36300 35400 USGS-12 06/09/97 70900 2200 32100 32000 67800 USGS-12 09/03/97 2000 22600 16700 29500 31500 16500 20900 USGS-12 11/18/97 66200 2200 30100 16400 28200 USGS-12 02/11/98 2300 21000 66100 16100 25000 28400 USGS-12 05/12/98 2100 19700 65100 24200 28200 15200 USGS-12 08/04/98 59000 1830 19400 25000 18600 14500 19600 USGS-12 11/04/98 J 1800 57400 24300 17400 USGS-12 02/11/99 56000 ď. 1940 17700 13300 13400 17300 23200 18600 USGS 12 05/05/99 58700 J 2200 18400 13300 14900 23900 57500 9 1700 USGS 12 07/29/99 24000 15800 USGS 12 11/03/99 57300 ... 1800 18600 13100 11711.84 19429.33 23971.05 15019.71 Mean 45602.94 2485.59 9750.62 6030.75 3391.06 14817.77 Std. Dev. 520.90 19438.68 38000.00 42000.00 Max 77000.00 3300.00 24000.00 17700.00 4000.00 13000.00 4500.00 Min 21000.00 1700.00 8300.00

Table 4 Nutrient Concentrations 1989 to Present

 ${f J} = {f Result}$ is detected below the reporting limit or is an estimated concentration.

Q = The reporting limit was elevated due to high analyte levels

Wa = Post digestion spike recovery fell between 40-85% due to matrix interference

U = The MDL was raised to accompodate the detection of constituents in blank

< = Less than Reporting Limit

D = Results were the result of a dilution

Date		NO2 + NO3			
Sampled	NO2	as N	TKN	тох	PasP
00140104				4	
09/10/91 01/08/92		380			154
03/10/92		396 440			
05/14/92		420			
07/08/92		460			
09/18/92		500			
12/09/92		540			
04/09/93 06/10/93		470			
09/14/93		480 530			
11/03/93		530			
03/15/94		470			
06/13/94		430			
09/12/94		460		2 200	
11/04/94		460			
03/17/95 06/09/95	345	380			< 10
09/14/95		450 500			10
11/08/95		430			< 10 50
01/16/96		490			< 10
03/19/96		460			10
06/10/96		500			30
09/03/96		470			20
01/31/97	10	450			< 50
06/05/97 09/02/97	10	720	< 500	8	170
11/18/97	10	680	c 500	< 30	24
02/09/98	3	440 590	< 500 J 94	< 30 < 30	39 UBJ 34
05/11/98	2	470	J 180		22
08/05/98	10	470	< 500	< 30	J 22
11/02/98	10	460	< 500	< 30	J 35
02/04/99	10	530	J 110	< 30	Ĵ 39
05/03/99	330	660	< 500	< 30	< 30
07/27/99 11/01/99	10	470	J 120	< 30	<u>ا</u> 31
06/15/90	10	470 1600	< 500	< 30 20	40
08/06/90	10	1600		20	
10/10/90	10	1700			
12/11/90	10	1800			
02/07/91	20	1700		1000	
04/11/91	10	1700	an and	3.0	
06/10/91 09/06/91	10	1800			
12/05/91	10	1700			
03/12/92	10	1900			
06/19/92	10	2000			
09/18/92	10	950			
12/01/92	20	2000			
04/13/93 06/14/93	10	2000			
06/14/93 09/16/93	10	2100 2000			
11/05/93	10	2000			
03/11/94	10	2200			
06/10/94	10	2100			
09/09/94	10	2000			
10/27/94	10	2000			
03/20/95 06/14/95	10	2100			< 10
06/14/95 09/12/95	10	2100 2100			30
11/02/95	10	2000			20
01/16/96	100	2200			70 < 10
03/21/96	10	2100			30
06/10/96	10	2200			< 2.10
09/03/96	4	2000			30

Well Date		NO2 + NO3						
Number Sampled	NO2	as N	TKN	TOX		PasP		TOC
JSGS-12 06/09/97	10	2200	< 500	30		170	J	500
JSGS-12 09/03/97	10	2000	< 500	6		27	j j	320
JSGS-12 11/18/97	4	1800	< 500	< 30	20	35		3600
JSGS-12 02/11/98	10	1600	< 500	< 30	บลง	5	<u> </u>	1000
JSGS-12 05/12/98	7 1	1400	ತೆ 270	< 30	J.	22		440
JSGS-12 08/04/98	10	1300	⊲ 500	- 55	J	32	< ূ	1000
ISGS-12 11/04/98	10	1500	< 500	48	J	25	ِ ق	320
ISGS-12 02/11/99	3	1100	< 500	< 30	J	48	٠,	1000
JSGS 12 05/05/99	10	1000	હે 330	< 30	*	50	<u> <</u>	1000
ISGS 12 07/29/99	8	950	ਰ 200	< 30		53	J	640
JSGS 12 11/03/99	10	820	J 120	< 30		41	<	1000
Mean	19.11	1183.82	382.91	29.39		37.39		812.2
Std. Dev.	47.45	706.66	165.95	10.06		38.68		1625.9
Max	330.00	2200.00	500.00	55.00		170.00	1	14000
Min	1.10	380.00	94.00	5.60		4.90		100.0

Table 5

Radionuclides Concentrations 1989 - Present

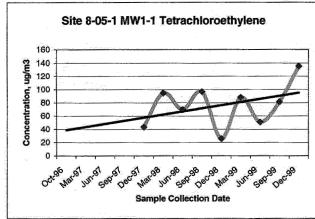
			(2s)		(2s)		(2s)		(2s)		(2s)
Well	Date		Total		Total	Gross	Total	Gross	Total	Tritium	Total
Number	Sampled	Sr-90	Error	Cs-137	Error	Alpha	Error	Beta	Error	(H-3)	Erroi
NRF-7	09/10/91										
NRF-7	01/08/92					1.29	0.31	3.23	0.47		
NRF-7	03/10/92					0.7	0.21	3.36	0.42		
NRF-7	05/14/92					1.03	0.28	3.5	0.42		†
NRF-7	07/08/92					1.48	0.37	2.86	0.37		
NRF-7	09/18/92										
NRF-7	12/09/92										
NRF-7	04/09/93					1.33	0.60	3.16	1.04		
NRF-7	06/10/93					1.99	1.00	2.71	0.92		
NRF-7	09/14/93					0.935	0.74	3.29	0.80		
NRF-7	11/03/93	No.	1.00			1.37	0.83	3.29	0.79		
NRF-7	03/15/94					1.52	0.87	2.82	0.74		
NRF-7	06/13/94					1.14	0.80	2.96	0.76		
NRF-7	09/12/94	V - 144	de no.			1.85	0.94	2.78	0.93	3.2	26
NRF-7	11/04/94					5.41	2.24	6.89	2.08	-16	26
NRF-7	03/17/95		100		100	2.35	1.45	7.61	2.52	-9.6	26
NRF-7	06/09/95					2.55	1.68	6.46	2.67	-16	26
NRF-7	09/14/95		107			1.24	0.78	4.13	1.21	-6.4	26
NRF-7	11/08/95	Yaran I.				1.84	1.02	3.3	0.85	9.6	26
NRF-7	01/16/96					0.78	0.77	4.4	1.28	12.8	26
NRF-7	03/19/96			******		1.69	1.90	7.3	2.31	0	26
NRF-7	06/10/96			ve di la compa		1.54	1.61	6.83	2.37	-12.8	26
NRF-7	09/03/96		***			1.41	1,53	5.68	1.77	12.8	26
NRF-7	01/31/97	0.72	2.6	-0.552	3.8	0.881	0.49	3.62	1.20	0.158	7
NRF-7	06/05/97	0.34	0.4	0.363	3.2	1.15	0.64	3.29	1.30	-29.2	200
NRF-7	09/02/97	0.09	0.3	1.67	1.4	1.27	0.66	3.97	1,40	3.98	7
NRF-7	11/18/97			0.197	0.7	1.83	0.95	4.51	1.20	3	7
NRF-7	02/09/98	0.27	0.3	0.482	0.7	1.56	0,66	4.5	1.00	3.19	6
NRF-7	05/11/98	0.02	0.2	0.318	0.5	1.68	0.60	3.97	0.69	2	7
NRF-7	08/05/98			0.166	0.5	1.2	0.52	4.64	1.10		
NRF-7	11/02/98	0.23	0.3	0.079	0.4	1.96	1.10	4.07	1.30	7.19	7
NRF-7	02/04/99	0.11	0.2	-0.41	0.7	1.77	0.57	4.1	0.68	15.65	3
NRF-7	05/03/99	0.00	0.2	0.101	0.6	1.72	1.00	4.18	0.88	38.28	7
NRF-7	07/27/99	0.00	0.2	0.248	0.7	1.68	1.00	1.73	0.64	8.69	2
NRF-7	11/01/99	0.26	0.3	-0.00582	0.7	1.11	0.89	4.64	1.10	3.57	NA
USGS-12	06/15/90					····				- 0.01	1
USGS-12											
USGS-12	10/10/90				- 10						
USGS-12						**************************************			100		
USGS-12	02/07/91										
USGS-12											
USGS-12	06/10/91										
JSGS-12	09/06/91										
USGS-12								wi +			
JSGS-12		- N				2.61	0.43	2.89	0.47		
JSGS-12						2.32	0.38	2.27	0.39		100
JSGS-12											
JSGS-12											
JSGS-12						2.29	0.87	2.09	0.81		100
JSGS-12						3.24	1.63	2.81	0.93		
JSGS-12						3.85	1.99	2.85	0.87		
JSGS-12						3.33	1.83	3.05	1.59		100
JSGS-12						3.25	1.70	2.16	0.75		
JSGS-12			5.0	-		3.33	1,74	2.63	0.87		
JSGS-12						3.21	1.60	2.62	0.82	32	32
JSGS-12						4.13	3.56	3.54	2.74	86.4	26
SPECTO	03/20/95					1.85	3,72	2.19	6.57		26

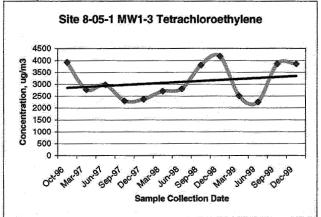
			(2s)		(2s)		(2s)		(2s)		(2s)
Well	Date		Total		Total	Gross	Total	Gross	Total	Tritium	Tota
Number	Sampled	Sr-90	Error	Cs-137	Error	Alpha	Error	Beta	Error	(H-3)	Erro
JSGS-12	06/14/95	- 10 m	19 at 19			2.63	2,46	6.2	3.90	64	26
USGS-12	09/12/95					2.56	1.51	4.24	1.21	35	26
USGS-12	11/02/95		art in the second			2.99	1.68	4.92	1.55	38	26
USGS-12	01/16/96					4.18	2.12	4.29	1.41	60.8	26
USGS-12	03/21/96					1.69	2.12	7.45	3,61	64	26
USGS-12	06/10/96					0.32	1.61	6.71	4.48	60.8	26
USGS-12	09/03/96					2.52	2.48	7.02	4.25	48	26
JSGS-12	02/04/97	0.19	0.3	0.379	3,3	1.43	1.20	2.38	1,60	62.4	11
JSGS-12	06/09/97	0.27	0.6	-4.59	3.7	0	0.16	1.2	1.00		13
JSGS-12	09/03/97	0.29	0.3	1.01	- 1,4	1.21	1.00	1.79	1.20	51.3	10
USGS-12	11/18/97	No.		0.515	1.1	3.01	1.60	2.77	0.98	63.2	11
JSGS-12	02/11/98	0.03	0.4	-0.174	0.7	2.77	1,10	3.93	0.71	59.4	10
JSGS-12	05/12/98	0.08	0.2	0.205	0.5	2.2	0.95	0.699	0.41	57.3	10
JSGS-12	08/04/98	0.06	0.2	0.137	0.6	2.3	0,64	3.46	0.66		16
JSGS-12	11/04/98	0.16	0.2	-0.00859	0.4	1.29	0.89	2.88	0.66	69.2	.1
JSGS-12	02/11/99	0.17	0.2	0.291	0.7	3.36	1.20	3.36	1.20	81.88	16
JSGS 12	05/05/99	0.00	0.3	0.105	0.7	3.76	2.00	2.2	0.75		53
JSGS 12	07/29/99	0.17	0.2	0.0098	0.7	1,71	1.30	3.31	0.92	74.94	11
JSGS 12	11/03/99	-0.01	0.2	0.443	0.7	2.11	1.60	3.42	1.00	61.63	9
	Mean	0.16	0.3	0.04	8.0	2.04	0.7	3.79	0.9	28.32	18.6
	Std. Dev.	0.17		1.08		1.02		1.59		32.44	
	Max	0.72		1.67		5.41		7.61		86.40	
	Min	-0.01		-4.59		0.00		0.70		-29.20	

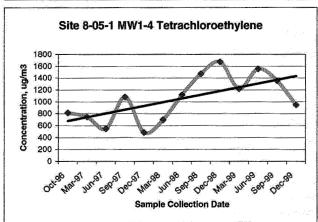
Appendix H Soil Gas Charts

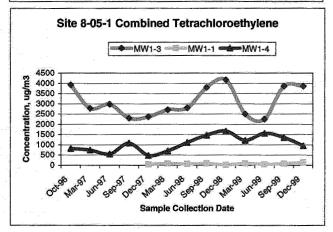
Site 8-05-1 Charts

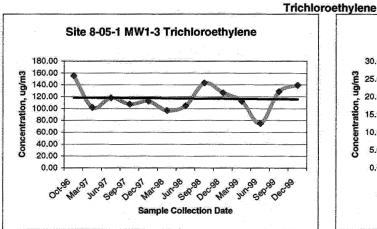
Tetrachloroethylene

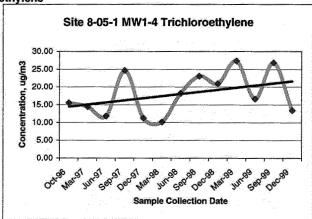


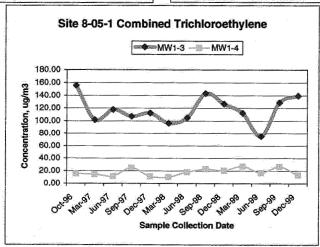




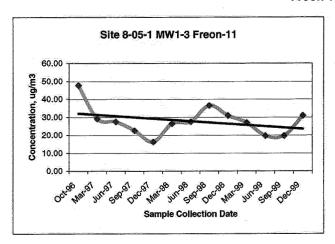


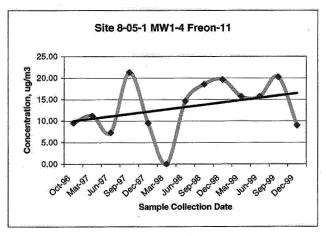


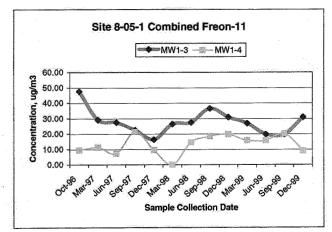


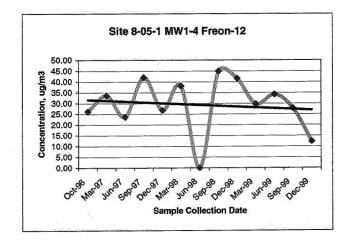


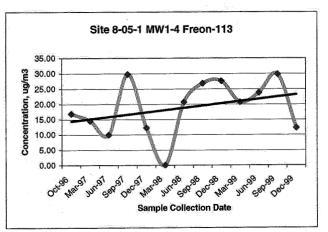
Site 8-05-1 Charts (continued) Freon 11 Charts





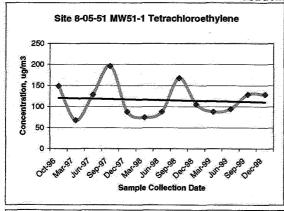


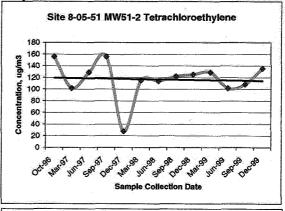


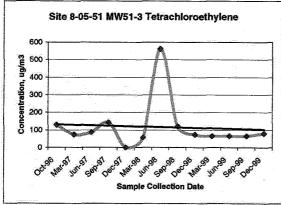


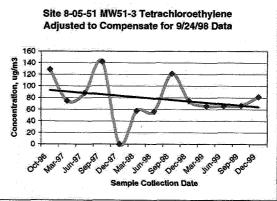
Site 8-05-51 Charts

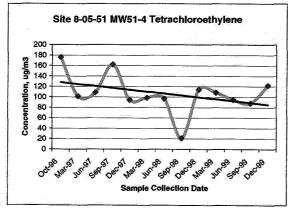
Tetrachloroethylene

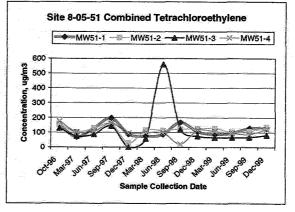


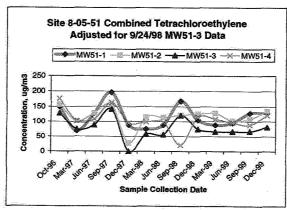






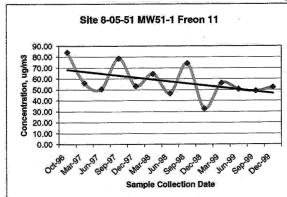


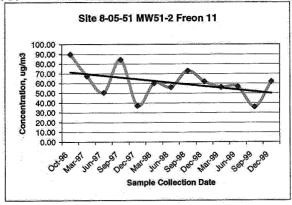


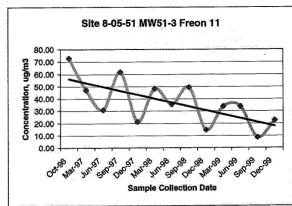


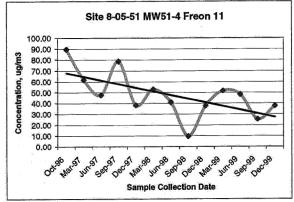
Site 8-05-51 Charts (continued)

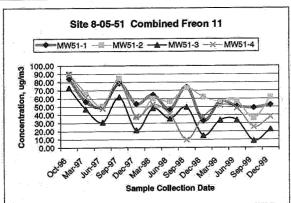






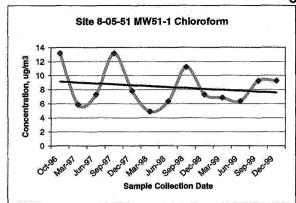


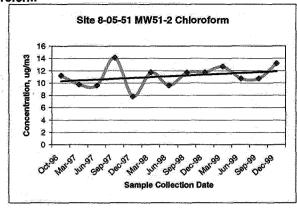


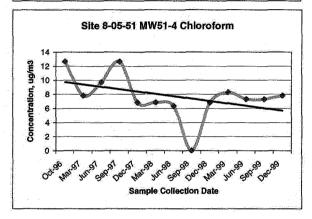


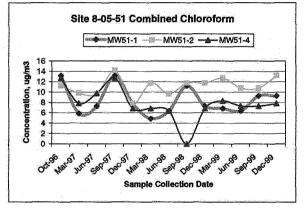
Site 8-05-51 Charts (continued)

Chloroform



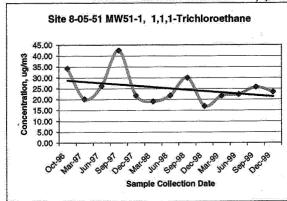


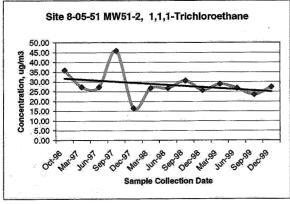


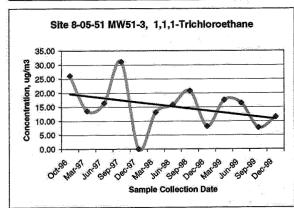


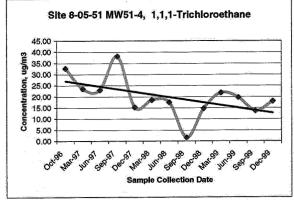
Site 8-05-51 Charts (continued)

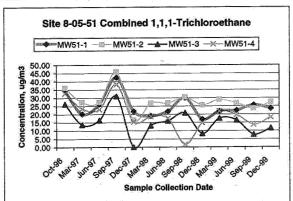
1,1,1-Trichloroethane



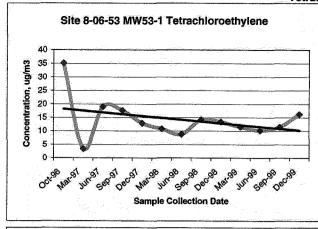


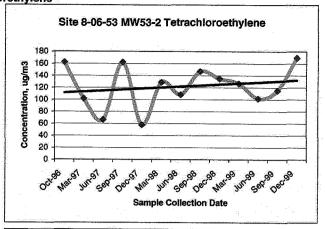


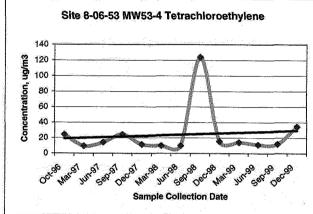


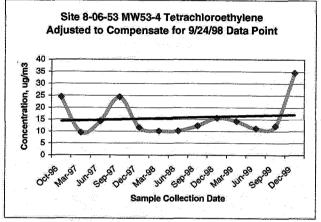


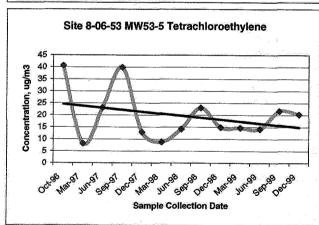
Site 8-06-53 Charts Tetrachlorethylene

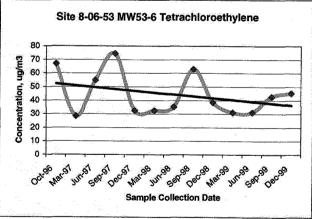


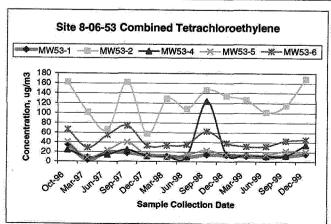




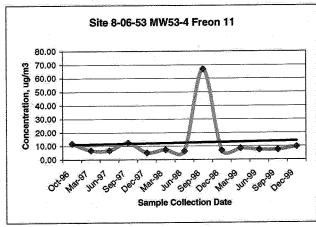


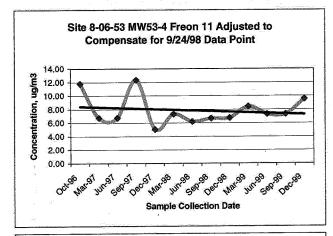


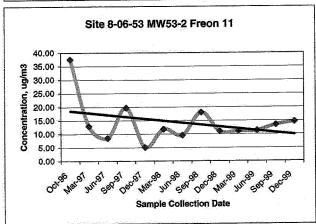


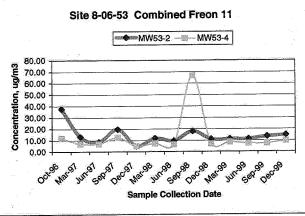


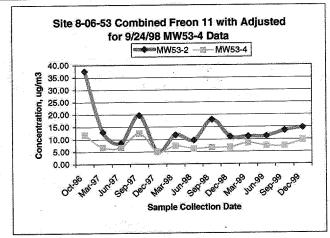
Site 8-06-53 Charts (continued) Freon 11



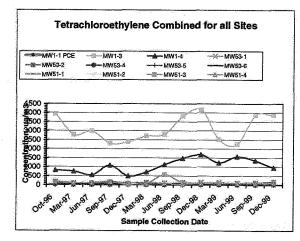


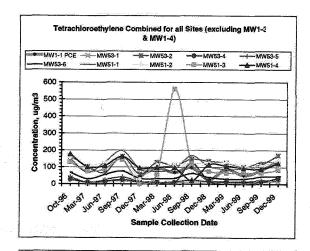


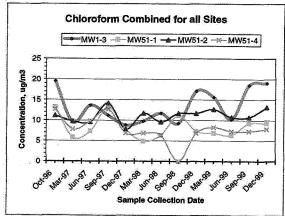


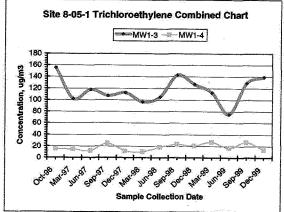


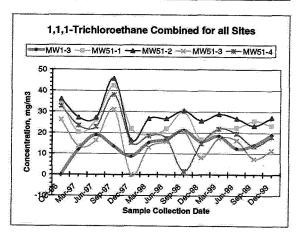
Combined Charts for Various Constituents

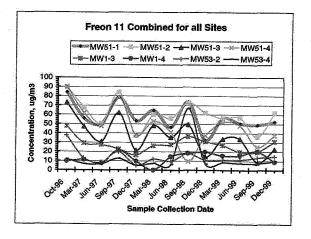












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